

VOLVO FM 420 4X2 TRACTOR

Volvo Trucks. Driving Progress



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Power & comfort meets productivity & reliability.

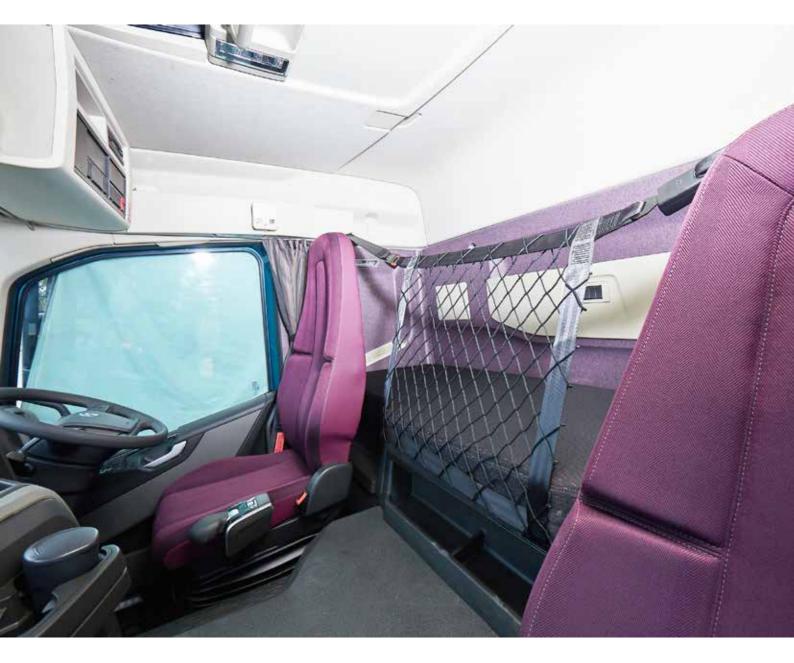
Safety always remains the prime value pillar

Volvo is synonymous with safety. The slimmer A-pillar, larger windscreen and lower door lines have improved direct visibility by 10%. Tinted windshield helps reduce glare and improved electrically controlled rear view mirrors gives you the best views. With this improved visibility, the driver is more confident while driving long trucks, and chances of accidents are minimized. Power windows and central door locking secures the truck. Volvo cabs have been subjected to the toughest tests including the Swedish crash test. Airbags ensure further passive safety. Electronic braking system and Electronic stability Control give you all the more confidence to tame the roads. A glass roof hatch is provided which improves cabin aesthetics due to more light coming in, while also acting as an emergency exit.



Most comfortable cab

Drivers are the most important part of the trucking industry and their comfort is directly proportional to the productivity. The new FM420 cab has been designed keeping this in mind. With 1000 ltr more cabin space, enhanced thermal insulation, 2dB quieter cab, and excellent internal and external storage space, soft closure of doors, pneumatic suspension and better vibration arresting on air suspended cab, comfortable bunk bed that drivers are guaranteed to feel at home.



More efficient

The cabin aerodynamics and air deflectors are improved to give better fuel economy. Volvo has been improving their Euro 6 technology since 2013. The latest engine management system, better gear shift programming over and above subtle design improvements in the engine like smoother cylinder liners, oil scraper ring, turbo impeller with inverse design, new low viscous VDS 5 oil all help save some more liters of fuel in the long run. The trucks are designed to run round the clock and the 810 liter fuel tank ensures that the trucks don't have to stop often for refueling.



Convenience redefined

The new FM420 has the state of the art I-Shift 12 speed automated manual transmission which chooses the best gear in the interest of power and fuel economy. The ergonomically designed new gear control lever fits snugly in palm. Switch between drive modes like economy, standard and performance with a push of a button. With I-Shift your driver has one less activity to focus on.

Add to this cruise control to maintain speed and downhill cruise control to control speed while going down the slopes using auxiliary brakes Volvo Engine Brake (VEB+), so as to reduce brake wear.

Pre-trip check diagnoses all the vital parameters of the truck and alerts if something needs your attention with pop up message on the driver information display. If not, just turn the ignition and keep rolling.







Ultra-modern displays & controls

The Driver Information Display on the new cabin is a fully digital 12" unit which is dynamic to suit the preferences of the driver. Choose between the classic analogue view or digital using buttons on the steering wheel. All vital statistics of the truck, alerts, driver timers, alerts etc... become part of the display. What's more — connect your phone to the truck and drive safe with hands-free comfort.

If one digital screen is not enough, there is an additional 9" touch screen Secondary information Display. This is a multipurpose unit which can display load indicator, trip meters, driver coaching, camera displays, infotainment etc... You can also add third party apps to suit your specific needs. The truck is always connected to your monitoring console and our Uptime centre, continuously transmitting vital data. We can remotely upgrade or install new software on the truck.







Technical specifications

ENGINE		WHEELS AND TYRES	
Six-cylinder, in-line direct-injection diesel engine		Tyre size	295/80R22.5, Radial tubeless
Overhead camshaft with four va	alves per cylinder	Wheel rim size	8.25" x 22.5"
Electronically regulated common rail fuel injection with unit injectors		Total no. of wheels fitted	6
Heavy duty turbocharger and intercooler		1 no. spare wheel rim and	d tyre
Engine management system with driving information and		CHASSIS FRAME	
diagnosis Exhaust after treatment by Selective Catalytic Reduction (SCR) technology with additional AdBlue tank		'C' channel section side r	members made of high strength steel
		Depth	300 mm
Exhaust Gas Recirculation (EGR)	12.8 litre	Flange width	90 mm
Displacement		Section thickness	8 mm
Bore x stroke	131 mm x 158 mm	STEERING	
Compression ratio	18.0 :1	Hydraulic Power Steering	
Max. power	420 hp @ 1400-1800 rpm	,	
Max. torque	2100 Nm @ 860-1400 rpm	Tilt & Telescopic adjustat	<u> </u>
Economy speed range	950-1400 rpm	Steering wheel diameter	450 mm
Emissions*	BS-VI / Euro 6	FUEL AND ADBLUE TA	ANKS
Max. engine brake power 503 hp (VEB+) @ 2300 rpm *Emission requirements conform to ECE/EEC regulations and AIS 137 as notified by MoRTH vide GSR 889(E) dtd. 16.09.2016 w.e.f 01 April, 2020.		Steel fuel tank mounted of	on right and left side of chassis
		Left Fuel tank capacity	405 litres
CLUTCH		Right Fuel tank capacity	405 litres
		AdBlue tank capacity	64 litres
Power assisted push-type single plate friction disc Plate diameter 430 mm		EXHAUST SYSTEM	
GEARBOX	430 111111	Vertical exhaust outlet on	n right hand side
	Law area de and	BRAKES	
I-Shift (Automated range / split	-	Electronic Brake System	(FRS)
Heavy duty transmission oil cooler with additional radiator		Electronic Stability Progr	
I-Roll, Shift strategy, smart cruise control features for economy driving		Hill start aid	
No. of gears 12 Forward + 4 Reverse		Dual line air brake system	n
Economy, Standard, Performance drive modes		,	automatic adjustment & ABS
FRONT AXLE		Electronic parking brake activation	
Heavy duty steerable front axle	20001	Spring type parking brake chambers on front and rear axle	
Capacity	8000 kg	Stationary trailer brake co	ontrol
Driven single reduction solo axle		PNEUMATICS	
Differential lock - Inter wheels		Gear driven, dual cylinder	reciprocating air compressor
Ratio	3.40:1	Max. compressor capacit	
Capacity	13000 kg	, ,	Air Production Modulator (APM)
SUSPENSION	<u> </u>	Total air tank capacity	101 litres
Front		ELECTRICALS Contact and the second	04.1/
Parabolic leaf suspension		System voltage	24 V
Double-action shock absorbers	and stabilizers	Volvo enhanced flooded l	, ,
No. of leaves	2	Battery voltage	12 V 170 Ah
Rear		Battery capacity	170 An
Electronically controlled air suspension with 3 driving levels		Alternator capacity	wo switches, one inside cab (Dash-
Rubber insulated V-stays and reaction rods, stabilizer & two shock absorbers		board) and one on cab ba	ack. (Only on ADR Tractor)
No. of air bellows	4	7 pol electrical trailer con 15 pol electrical trailer co (Only on ADR Tractor)	

CABIN

New FM sleeper cabin fully suspended by four coil springs and shock absorbers

Crash tested steel welded structure

Accommodation	1 driver + 1 co-driver + 1 bunk
Cabin tilt angle	70°

Interiors

12" fully dynamic digital instrument cluster with Home & Focus

Slimmer A-pillar, larger windscreen & lower door lines enhances direct visibility

Air bag on driver side

Electrical manually controlled climate unit

Central door locking and power windows

Ergonomically designed new dashboard with easy-access stalks, switches & controls

9" touch screen Secondary information display

Air suspended driver's seat with adjustment of fore-aft, height, back rest, lumbar support, shoulder, seat cushion extension, seat tilt

Cushioned foldable co-driver seat

Cruise Control + Downhill cruise control

Red safety belt

Exteriors

Aerodynamically designed with smooth surfaces and rounded corners at the front

Aerodynamic roof air deflector

Cab side air deflectors

New heavy duty headlamp unit with higher illumination main heam

Fog light and static cornering light

TELEMATICS

Volvo Connect on-board telematics collects and transmits all the vital statistics and performance parameters of the truck Performance and health of the truck can be monitored from the convenience of your home

TOOLS AND ACCESSORIES

Standard tool kit, first aid kit, two warning triangles, bulb and fuse kit 20 ton hydraulic jack

FIFTH WHEEL COUPLING

50 mm (2") heavy duty fifth wheel coupling	
Standard kingpin offset (before rear axle)	475 mm
Height from ground (unladen)	1236 mm
Height from ground (laden)	1203 mm

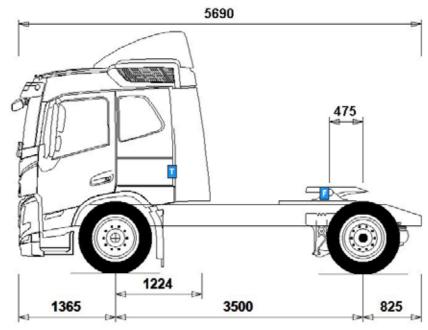
VEHICLE DIMENSIONS,mm (As per CMVR)

Wheel base	3500	
Overall length	5690	
Overall width	2534	
Overall height (including Air Deflector)	3994	
VEHICLE WEIGHTS kg (as per CMVR limits)		
Front axle	7000	
1 TOTIL BAILE	7000	
Rear axle	12500	
1101111 47110		
Rear axle	12500	

PERFORMANCE DATA

GCW with 3 axle air suspended trailer

Economy speed range on top gear	53.4 - 78.7 kmph
Max. Speed Limited	80 kmph



Caution: Do not drill or weld on the frame. Note: Volvo has a policy of continual product improvement. The specifications / images shown here are indicative and are subject to change without prior notice. Performance parameters are subject to stability of the vehicle.

49500

V O L V O

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